LOSEV, V.V.; GARADETEKEE, P.V. (Mone on)

Effect of the addity of solution on the electrode processes on a bismuth amalgam electrode. Zhur, fiz, khim, 37 no.4: 847-849 Ap '63. (MIRA 17:7)

I. Fiziko-khimicheskiy instibut imeni l.Ya. Karpova.

GORDETSKIY, V.V.: LOSEV, V.V.

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(Electrodes) (Radiochemistry)

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Effect of potential on the rate of platinum dissolution in hydrochloric solutions. Zashch.met. 1 no.4:433-435 Jl-Ag 165.

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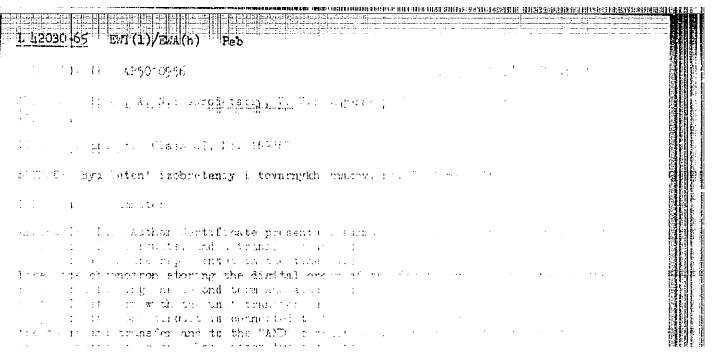
LOSEV, V.V.; MOLODOV, A.I.; GORODETSKIY, V.V.

Polarization measurements in the presence of concentration polarization. Elektrokhimita 1 no.5:572-578 ky 165.

1. Fiziko-khimicheskiy institut imeni Karpova, Moskva.

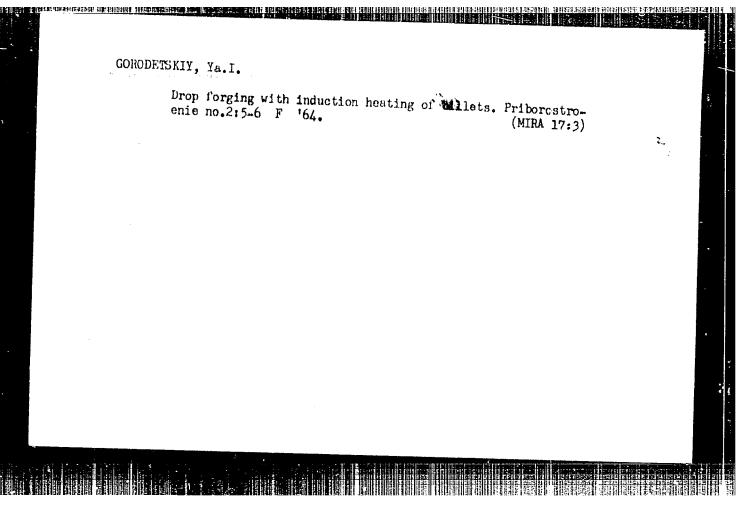
ROSTYAKOV, V.N., kund. tekhn. nauk, YEKIRAV, A.Y.., isra. techn. nauk;
LOHOBETAKIY, V.V., insh.

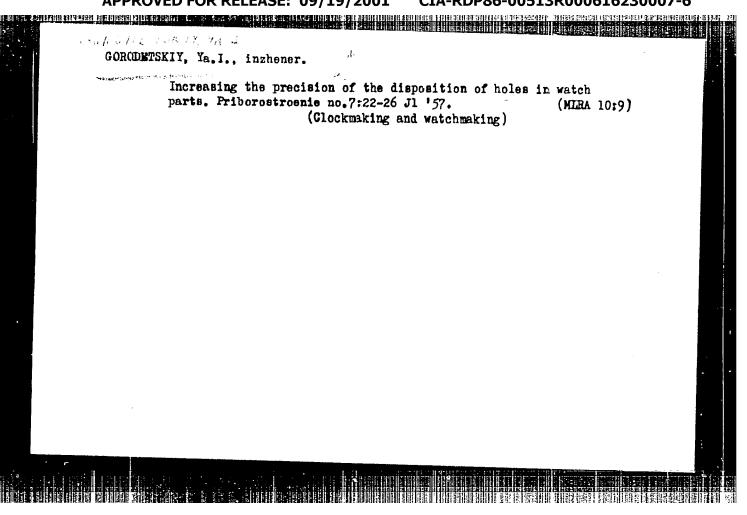
Footomic officiency of the use of fishe furnaces with neuoxidizing heating. Mashinostroenie no.5280482 Sec 165. (MRA 18;9)



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AUTHOR: Gorodetskiy, Ya.I. SCV/119-58-7-9/10 TITLE: The Determination of Forces During the Calibration of Holes by Means of Punches (Opredeleniye usiliya pri kalibrovanii otverstiy shtampami) PERIODICAL: Priborostroyeniye, 1958, Nr 7, pp. 28-31 (USSR) ABSTRACT: In the clock and watch industry calibration of holes is often carried out by means of punches. In order to calculate the forces the punches have to absorb, such forces were used by several factories as are necessary for cleaning the exterior of the work pieces. This is shown to be wrong. In a measuring schedule the forces are experimentally measured and tabularized for the punches during the individual phases of From these values the amounts are determined and given which are necessary in order to be able to calculate the strength of the punch. Special attention must be paid to compressive forces. Transverse bending is not permitted. As a formula for the forces P during the calibration of holes Card 1/2 the experimentally found dependence $P = \mathcal{H}d \Delta q$ is given.

The Determination of Forces During the Calibration of Holes by Means of Punches

30V/ 119-58-7-9/10

There are 6 figures, 3 tables, and 6 Soviet references.

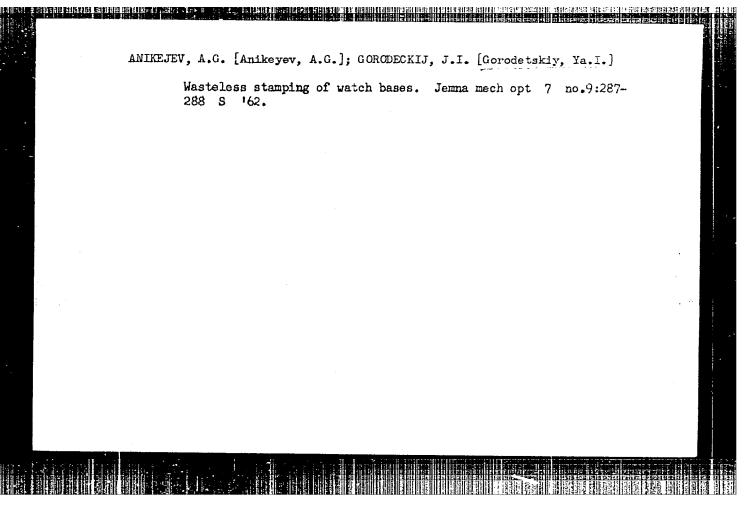
1. Industrial plants--USSR 2. Machine shop practice 3. Tools

Card 2/2

GCRODEISKIY, Ya. I., Cand of Tech Sci -- (diss) "Investigation of the Precision of the Tooling of the Openings in the Platina and Bridges of Small Caliber Watch Mechanisms," Moscow, 1959, 11 pp (Moscow Higher Technical School im Bauman) (KL, 2-60, 113)

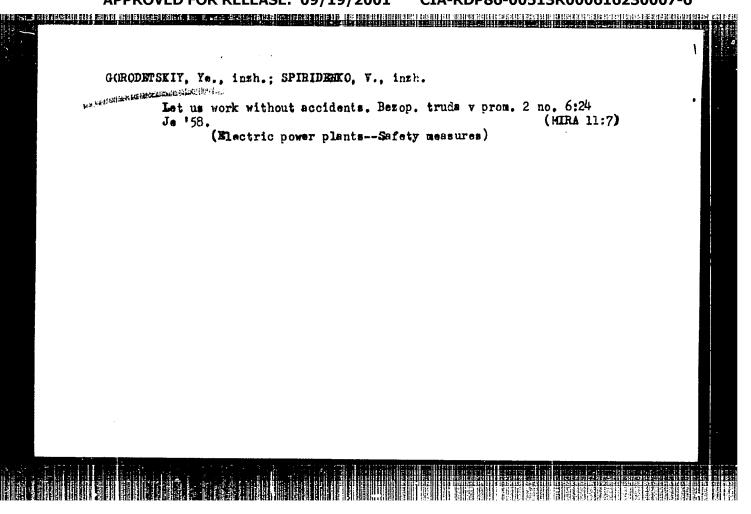
AHIKEYEV, A.G., inzh.; GORODETSKIY, Ye. I., kand.tekhn.nauk

Stamping platinum blanks for watches without waste.
Priborostroenie no.6:14-15 Je '61. (MIRA 14:6)
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- 2. USSR (600)
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9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.



AR'YEV, T.Ya., prof. (Leningrad); BABCHIN, I.S., prof. (Leningrad);
VAYNSHTEYN, V.G., prof. (Leningrad); GORODETSKIY, Ye.M.,
kand. med. nauk (Moskva); GRATSIANSKIY, V.P., prof.
(Leningrad); KORNEV, P.G., prof. (Leningrad); KAPLAN, A.V., prof.
(Moskva); LEVIT, V.S., zasl. deyatel nauki, prof. [deceased];
PSHENICHNIKOV, V.I., prof. (Moskva); RUFANOV, I.G., prof.
(Moskva); SITENKO, V.M., prof. (Leningrad); SMIRNOV, Ye.V., prof.
(Leningrad); FRIDLAND, M.O., zasl. deyatel nauki, prof. (Moskva);
SHEYNIS, V.N., doktor med. nauk, (Leningrad); SHLAPOBERSKIY,
V.Ya., prof. (Moskva); VISHNEVSKIY, A.A., prof., red.; GOL'DGAMMER,
K.K., red.; BEL'CHIKOVA, Yu.S., tekhn. red.

[Specialized surgery] Chastnaia khirurgiia; rukovodstvo dlia vrachei v trekh tomakh. Pod red. A.A. Vishnevskogo i V.S. Levita. Moskva, Medgiz. Vol.3. [The extremities] Konechnosti. 1963. 670 p. (MIRA 16:5)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Kornev, Rufanov).

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KALYUZHNAYA-LUKASHOVA, Galina Mikhaylovna; GORODETSEIT, Telb., red.

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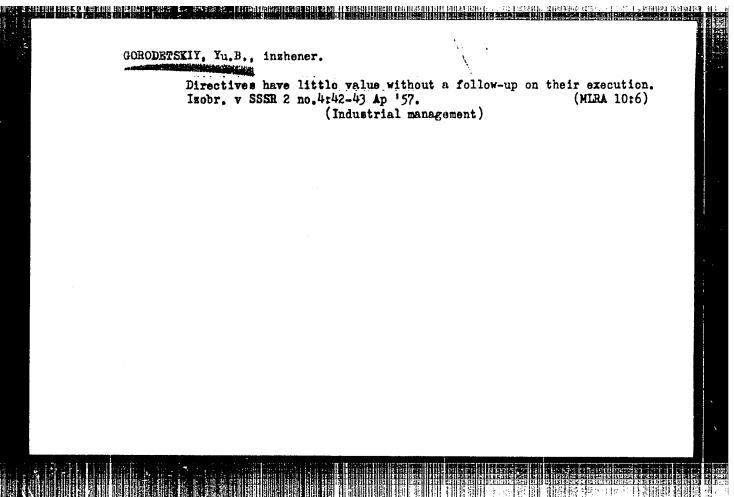
Iz Istorii Koskovskogo Universiteta 1917-1941. Stornik Statey (From the History of Moscow University. 1917-1941. Collection of Articles) Pod Red. Ye. N.
Gorodetskogo (I Dr) Moskva, Izd-vo Moskovskogo Universiteta, 1955.

285 P.

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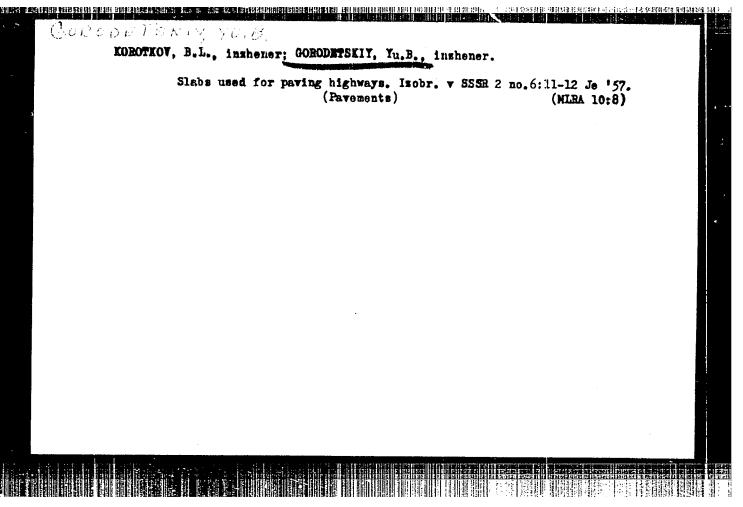
[Study topics for the 10th grade: "Reorganization of the national economy" and "Consolidation of the Soviet multinational state"] Izuchenie temy "Vosstanovlenie narodnogo khoziaistva. Ukreplenie Sovetskogo mnogonatsional nogo gosudarstva" v X klasse. Moskva, Izd-vo Akad.pedagog.nauk RSFSR, 1959. 81 p. (MIRA 13:2) (Russia--Economic policy) (Russia--History)

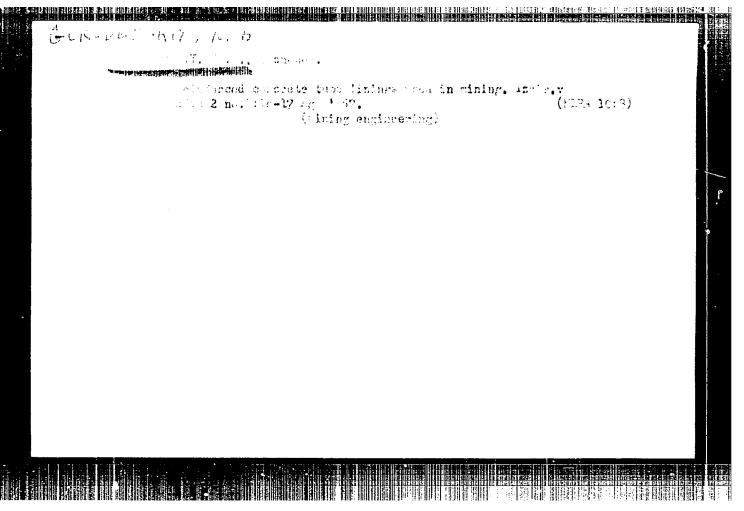


GORODSTSKIY, Ye.B., inchener.

Strict control over the attestations on the utility of inventions is necessary. Izonr.v SSSR 2 no.5: 24-25 My '57. (MLHA 10:7)

(Petents)





GRODETSKIY, Yu.B., ingh.

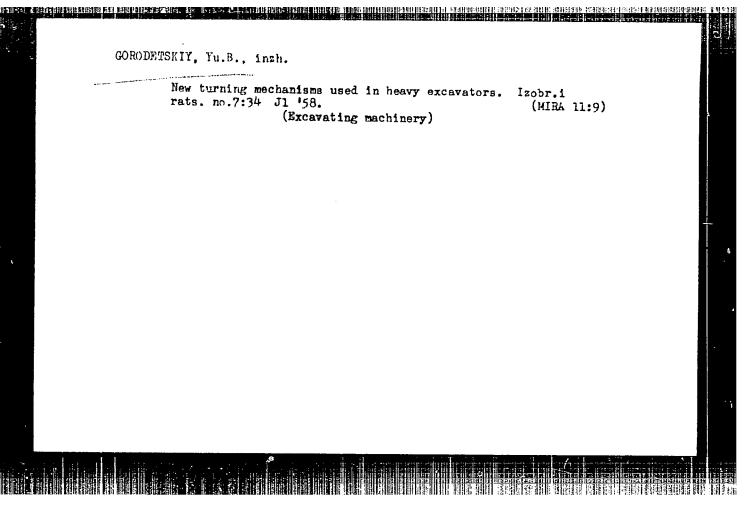
New techniques used in connecting water races. Izobr.v SSSR 2 (NIRA 10:12)

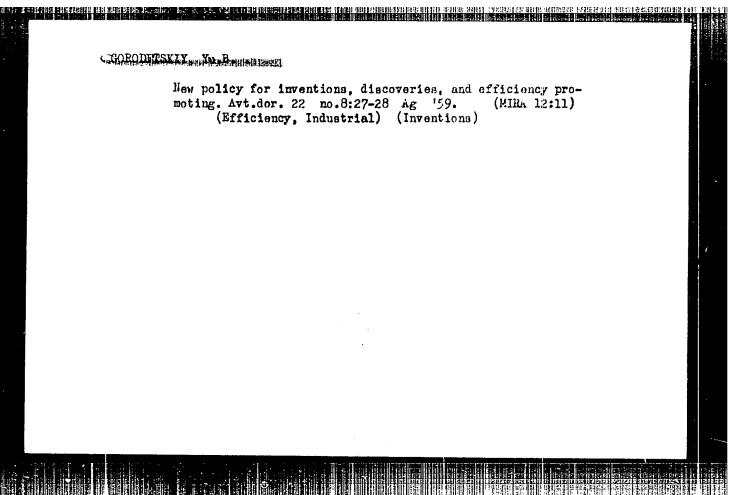
(Hydraulic engineering)

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Strict control is necessary on the quality of the expert's opinion in determining the usefulness of inventions. Tr. From the Russian. p. ℓ hatsicnalizated Vol. ℓ , No. 3, Mar., 1958. Sofiia, Bulgaria.

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CORODETSKIY, Yu.B., inzh.; SITNIKOV, L.P., red.; SOSINA, A.L., tekhn.

[Collection of inventions; building materials industry] Sbornik izobretenii; promyshlennost' stroitel'nykh materialov. Moskva, TSentr. biuro tekhn. informatsii, 1961. 264 p. (MIRA 14:10)

1. Russia (1923- U.S.S.R.) Komitet po delam izobreteniy i otkrytiy. (Building materials industry—Technological innovations)

GORODETSKIY, Yu.B., inzh.; SUKHAREVA, R.A., red.; KAMYSHNIKOVA, A.A., tekhn. red.

[Collection of inventions: construction and building materials in agriculture]Sbornik izobretenii; stroitel'stvo i stroitel'-nye materialy v sel'skom khoziaistve. Moskva, TSentr. Eluro tekhn. informatsii, 1962. 47 p. (MIRA 16:3)

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(Building--Technological innovations)

(Building materials industry--Equipment and supplies)

(Agricultural engineering—Equipment and supplies)

"APPROVED FOR RELEASE: 09/19/2001

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CORODELSIK, YU. G.

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Gauges

Mensuretion

"Automatic Control of Dimensions," Prof I. Ye. Gorodetskiy, Br Tech Sci, Yu. G. Gorodetsky, Engr, Sci Res Bu of Interchangeability, V. S. Vikhmen, Cand Tech Res Bu of Interchangeability, V. S. Vikhmen, Cand Tech Res, Cen Inst of Labor and Mech, Ye. M. Levenson, Engr, Auto Works imeni Stalin, 62 pp

"Yest Mashinostroy" No 10

Describes various models of automatic gauges, with 12 illustrations.

30/49175

GORODETSKI, YU. G. and P. H. POLIANSKII

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Primenenie pnevmaticheskikh metodov kontrolia v mashinostroenii. Moskva, Mashgiz, 1949. 126 p. illus.

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Using pneumatic methods of control in mechanical engineering.

DLC: TJ1005.G67

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Konstruktsiiai eksploatatsiis sredstv izmereniis razmerov v mashinostroenii. Rekomendovano v kachestve uchebn. posobiia dlia tekhnikumov. Moskva, Mashgiz, 1951. 370

Bibliography: p. (365)-366.

Design and operation of dimension-measuring instruments in machine building.

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According to Izvestiya, Acad. Name SSSR (OWN) 12, (1888-91) 1953, the following was read at the seminar of the Laboratory of Machine and Instrument Precision, Institute of Machine Science, Academy of Sciences, USSR in 1952 and the first half of 1953:

Yu. G. Gorodetsky read two papers "Methods of determining errors in pneumatic measuring systems" and "Methods of layout of automatic control devices for ball and roller bearing (production) lines". In the first paper Yu. G. Gorodetsky set out a method for determining systematic and chance errors in pneumatic systems working under steady conditions, by means of a group of standards. The second paper dealt with experience in the layout ("provision") of pneumatic checking automatic devises for automatic (production) lines.

SO: Gt Brit, Min of Defence, DSI Trans #38 May 54, Unclas.

CORONISHTY, Yu. C. tess/ingineering - Pneumatics Camil : 1/1 Authors Gorodetskiy, Yu. G. American to the property of the state of the Title Fallibility of a pneumatic measurement method. Periodical Stan. 1 Instr., Ed. 6, 25 - 27, June 1954 Abstract A graphic calculation method, used for designing and adjusting pneumatic control equipment and instruments, was devised. The calculations are based on the characteristics of intake and exhaust nozzles of the instrument, which permit the magnitude of error to be determined. Graphs; Institution : Submitted

8 (2)

SOV/112-57-5-10715

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1957, Nr 5, pp 161-162 (USSR)

AUTHOR: Gorodetskiy, Yu. G.

TITLE: Checking Pneumatic Primary Elements and Automatic Control Devices
That Are Used in Multirange Sorting (Proverka pnevmaticheskikh datchikov i
kontrol'nykh avtomatov dlya mnogodiapazonnoy rassortirovki)

PERIODICAL: V sb.: Tochnost! izgotovleniya sharikovykh i rolikovykh podshipnikov na avtomatich. liniyakh. M., AS USSR, 1955, pp 206-221

ABSTRACT: Diaphragm-type mercury and sylphon differential pneumatic pickups are described. It is pointed out that error evaluation of pneumatic pickups in terms of distance is wrong in principle. The pickup error should be expressed in terms of pressure, as this characteristic is independent of measuring conditions. A pickup connection diagram for checking chance errors is presented, and instructions for such checking are given. Accuracy of multi-

Card 1/2

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महाराष्ट्रीय हेर्न्य व्यापाली स्थापता स्था

Checking Pneumatic Primary Elements and Automatic Control Devices That range automatic sorting is analyzed, and methods for determining the quantity of incorrectly sorted parts are indicated.

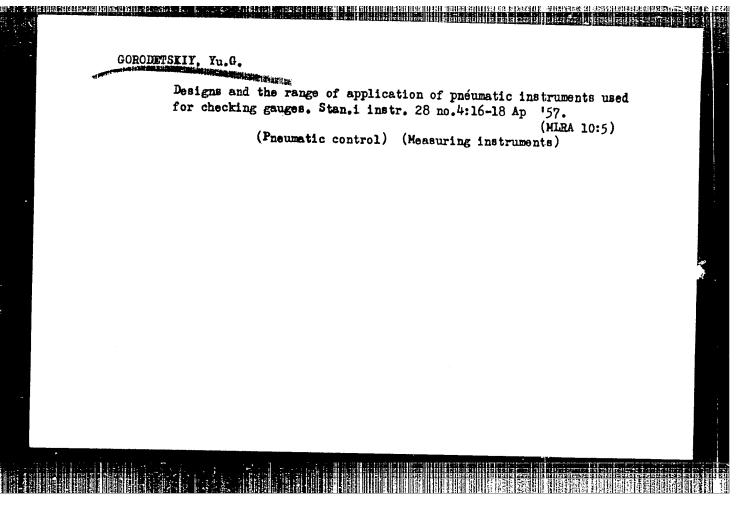
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Card 2/2

GCRODETSKIY, Yuriy Georgiyevich; KOLLI,A.Ya. inshener, redaktor [deceased]
S.M., tekhnicheskiy redaktor; SCKOLOVA,T.F., tekhnicheskiy redaktor

[Automation of pneumatic measurement of dimensions] Avtomatizatsiia pnevmaticheskikh izmernii razmerov. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1956. 167 p. (MIRA 9:3)

(Automation) (Measuring instruments)



DOBRYNIN, Tevgeniy Mikhaylovich; TAYTS, B.A., prof., doktor tekhn.nauk, retsenzent; GOROMETSKIY, Yu.G., kand.tekhn.nauk, retsenzent; VALEDINSKIY, A.S., kand.tekhn.nauk, red.; YELISEYEV, M.S., red.izd-va; TIKHANOV, A.Ya., tekhn.red.

[Instruments for automatic control of dimensions in the manufacture of machinery] Pribory avtomaticheskogo kontrolia razmerov v mashimostroenii. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 302 p. (MIRA 13:7)

(Machinery industry) (Automatic control)

DRAHOVEN IV, M.G.; GOROUBTENIN, Yu.G.; VOLCHANINOV, V.S.

The PP-3 pneumatic profilograph. Biul.tekh.-ekon.inform. no.ll;3133 '60. (MRM. 13:11)

(Preumatic gauges)

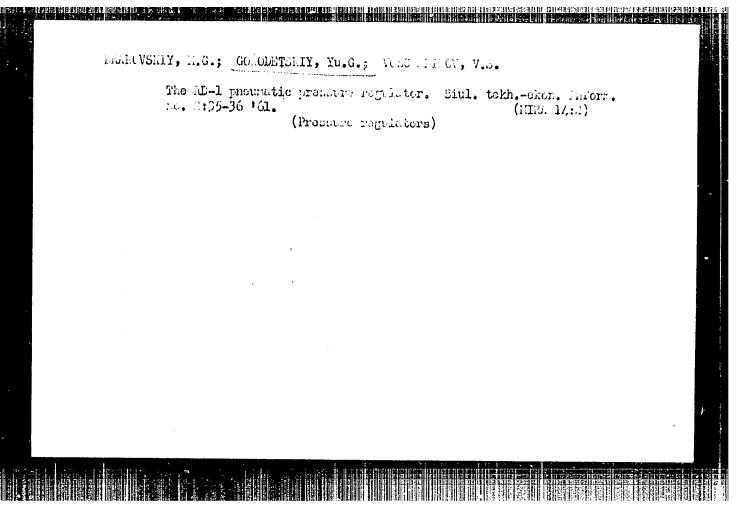
DRANOVSKIY, M.G., kand.tekhn.nauk; GORODETSKIY, Yu.G., kand.tekhn.nauk; SMIRNOV, B.M., inzh.

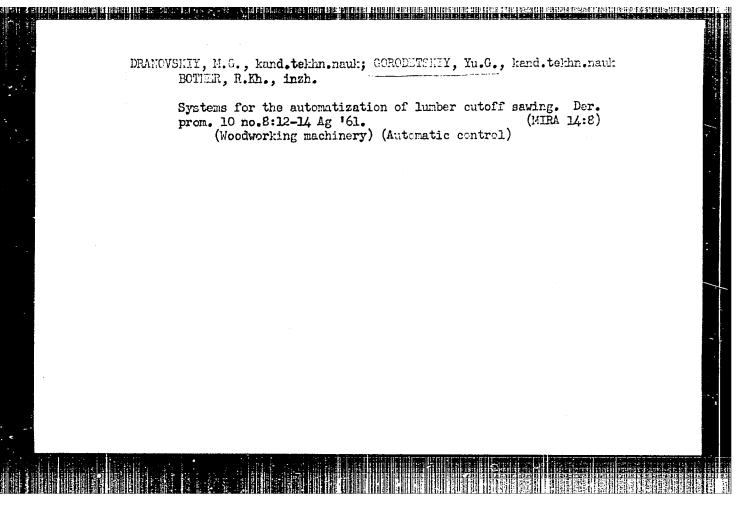
Mechanized TS-1 model trimmer. Der.prom. 10 no.5:16-17 My '61.

(HIRA 14:5)

1. Nauqhno-iesledovatel'skiy institut derevoobrabatyvayushchego mashinostroyeniya.

(Woodworking machinery)





DRANOVSKIY, M.G., kand.tekhn.nauk; GORODETSKIY, Yu.G., kand.tekhn.nauk

RD-1 pneumatic pressure regulator. Der.prom. 10 no.12:17 D

(MIRA 14:12)

DRAMOVSKIY, M.G.; GORODETSKIY, Yu.G.; PIVOVAROV, A.Ya.

Automatic durable feeder for pile sorting. Der.prom. 11 no.2:10-11 (MIRA 15:1)

(Lumber--Drying) (Woodworking machinery)

S/141/59/002/05/015/026 E041/E321

AUTHOR:

Gorodetskiy, Yu.I.

The Theory of the Excitation of Vibrations When Drilling

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika,

1959, Vol 2, Nr 5, pp 776 - 786 (USSR)

TITLE:

ABSTRACT: By using locus diagrams to describe the separate effects of forces acting on a complex structure, a classification is made of papers devoted to lathe cutting-tool vibration and the basic mechanisms in drill-chatter are distinguished. Drill stability is investigated for both discrete and distributed idealizations. With the aid of D-analysis in the parameter plane regions of vibration-free operation are mapped out. The diagram which constitutes the critical apparatus was first used by Neymark (Ref 26). In Figure 1, for example, a lathe tool is reducing the diameter of a plain shaft with a fixed depth of cut and feed rate. The partial oscillators are represented by points (x, y, z, ϕ, s) , the directed forces (or couplings) by directed segments, the reciprocal forces (elasticity, inertia, gyroscopic force) by undirected segments. A closed contour which

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The Theory of the Excitation of Vibrations When Drilling

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does not cross itself, made up of undirected and, at least one directed, segments is called a cycle. If a system is statically stable then, for a linear mechanism of exciting oscillations, it is necessary to have a negative friction or cycle. For example, in Figure 1 the tool chatter may be due to negative friction along ϕ and y and cycles 1, 2 and 3. The effects along ϕ and y have been studied in Refs 1-5 and cycles 1 and 2 in Refs 6 and 7. Cycle 5 has not so far been examined. In the paper vibration of the workpiece is not taken into account. The main features, as far as analysis is concerned, of a pillar drilling machine are shown in Figure 2. There are two basic oscillatory systems: the spindle and the drive motor ϕ ; the entire spindle assembly, s. The drill is supposed absolutely rigid. Changes in feed and rate of feed (s, s) lead to a change in the torque $\,{\,{\rm M}_{\!\scriptscriptstyle \odot}}\,$, while a change in drill speed $\dot{\phi}$ produces a change in the axial component, P of the cutting force. This means that s acts on

Care 2/5 by means of directed coordinate and velocity while ϕ acts

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The Theory of the Excitation of Vibrations When Drilling

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on s with a velocity vector only. This is represented in the diagram of Figure 3, whence it follows that vibrations arise because of negative friction along $\,\phi\,$, and due to cycle 1 made up of the directed segments of coordinate and velocity and cycle 2 made up of velocities. Another reason for vibration may be the presence of forces delayed by 1/m of the spindle rotation time and of m cutting edges on the tool. When drilling deep holes the drill may no longer be considered rigid and an important part is played by the delay encountered by an elastic wave running the length of the drill. In the rigid case, during vibration, the feed rate may increase independently of the cutting rate and feed and the force P_x and torque M_{ω} are denoted in Eq (1). Figure 4 shows how the swarf is formed. The separate $\,s\,$ and $\,\phi\,$ oscillations are described by Eqs (4) and (5), respectively, with boundary conditions for x = 0, x = 1 in Eqs (6) and (7), respectively. Differentiating Eqs (5), (6) and (7) with respect to

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The Theory of the Excitation of Vibrations When Drilling

and substituting $\hat{\phi} = v/r$, the equation for v becomes Eq (8) which, after some transformation, becomes the characteristic Eq (12). The stability is now investigated for a number of particular cases. When the drill is quite rigid, the discussion also applies to the case of facing and plain turning and end-milling as in Figure 5. Two subcases are of interest: $\lambda_1 = \infty$; $\lambda_2 = \infty$. The values λ_1 and λ_2 , elasticity coefficients, are defined in Eqs (14) and (15). When $\lambda_1 = \infty$ the mechanism is negative friction along ϕ and the stability criterion is that δ_2 (foot of p 780) should be positive. When $\lambda_2 = 00$, the vibration arises from time lag. representation in the parameter plane, Eq (12) is rewritten as in Eq (20) and the parameters α and β are introduced as in Eq (21). The D-analysis is shown in Figure 7 and the stable areas depend on k. A third sub-case arises when 🌣 , the time lag, is small.

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The Theory of the Excitation of Vibrations When Drilling

parameter plane of Figure 9 applies. When the drill cannot be considered perfectly rigid the construction in the parameter plane becomes more complex. Figure 11 shows a number of particular cases while Figure 12 is a Vyshnegradskiy diagram with the stable regions shaded. Figure 13 shows the relationship between vibration frequency and the length of the drill assembly. There are 15 figures and 27 references, 22 of which are Soviet, 4 English and 1 French.

Nauchno-issledovatel'skiy fiziko-tekhnicheskiy institut ASSOCIATION: pri Gor'kovskom universitete (Physico-technical Scientific Research Institute of Gor'kiy University)

SUBMITTED:

April 10, 1959

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S/141/59/002/06/015/024

AUTHORS:

E192/E382 Yu.1. and Leonov, N.N. Neymark, Yu.I., Gorodetskiy

TITLE:

Investigation of the Stability of Some Distributed Linear

Systems

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika,

1959, Vol 2, Nr 6, pp 967 - 988 (USSR)

ABSTRACT:

The following dynamic system is considered. The output variable y(t) is uniquely determined by the input function x(z) for $\gamma \leq t$. The set of operations necessary for the functions x(t), in order to obtain y(t), is the operator of the system. If the operator is linear the system is also linear. The dynamic system is said to be stable if small input perturbations result in small perturbations at the output. In order to make

this definition clearer it is necessary to have quantitative characteristics of the input and output perturbations. If the characteristics of the input and output are denoted as r and ρ , the stability requirement states that for $\epsilon > 0$, ρ y should be smaller than ϵ if $rx < \delta$, where $\delta > 0$ and is independent of ϵ . It is assumed that the input and output variables x(t)

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Investigation of the Stability of Some Distributed Linear Systems

and y(t) can undergo Laplace transformations and that the relationship between them can be expressed by:

$$y(p) = K(p)x(p) \qquad (1.1) .$$

$$\mathbf{rf} = \iint \mathbf{f} \left| \right|^2 e^{-2\gamma t} dt , \quad \mathcal{O} \mathbf{f} = \iint \mathbf{f} \left| \right|^2 e^{-2\Gamma t} dt \qquad (1.5) .$$

If rf = Pf, the following theorem is true: "In order that a linear system be stable with respect to all the perturbations x(t), for which $P \times C + OO$, it is necessary that the function K(p) should be analytical for Rep > Y

Card2/6

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Investigation of the Stability of Some Distributed Linear Systems

and it is sufficient for the function to be analytical in any semi-plane Rep $> \gamma'$ where $\gamma' < \gamma''$. A further theorem states the following: "In order that the linear system be stable in the sense:

$$rf = Sup_{t>0}e^{-\gamma t} |f(t)|$$
, $\varrho f = Sup_{t>0}e^{-\Gamma t} |f(t)|$ (1.7)

for $\Gamma = \gamma$ it is necessary that the system should be stable in accordance with Eqs (1.5) at $\Gamma = \gamma$ and it is sufficient that the function K(p) should be analytical in any semi-plane Rep γ , for γ , ζ 0 and that the integral:

 $\int_{-\infty}^{\infty} |d\mathbf{K}| d\mathbf{p}|^2 p = i\omega^{d\omega}$ (1.8)

should be convergent. A system described by :

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Investigation of the Stability of Some Distributed Linear Systems

$$\frac{\partial^2 \mathbf{u}}{\partial \mathbf{t}^2} = \mathbf{a} \frac{\partial^2 \mathbf{u}}{\partial \mathbf{x}^2} - \mathbf{b} \frac{\partial \mathbf{u}}{\partial \mathbf{x}} - \mathbf{c_1} \mathbf{u} = \mathbf{f_0}(\mathbf{u}) \tag{1.9}$$

$$\frac{d\xi_{i}}{dt} = \sum_{s=1}^{n} a_{is}^{t} \xi_{s} = f_{i}(\xi_{1}, \xi_{2}, \dots, \xi_{n})$$
(i = 1, 2, ..., n - 2)

is considered as a general example. The system can be linearized and the equations are then written as Eqs (1.11) and (1.12). If it is assumed that the initial conditions are 0, Eqs (1.11) and (1.12) can be written as Eqs (1.13) and (1.14). The solution of this system can be written as:

Card4/6

$$\underline{\mathbf{B}} = \mathbf{K}(\mathbf{p})\underline{\mathbf{A}}$$

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Investigation of the Stability of Some Distributed Linear Systems

where A and B are vectors and K(p) is expressed by the matrix given by Eq (1.17). It is shown that the solution of the stability problem is equivalent to the investigation of the roots of the so-called characteristic equation; this is expressed by $\Delta(p) = 0$. The above theoretical results are employed to investigate the stability of several systems. First, the so-called problem of I.N. Voznesenskiy is considered. The system is described by Eq (2.1). It is shown that its characteristic equation is in the form of Eq (2.7). Secondly, a feedback amplifier containing a lossy delay line in the feedback loop is investigated. The characteristic equation of the system is in the form of Eq (3.1), where J(p) is the transfer function of the feedback loop. The stability of an automatic compressor station operating between input and output mains of a gas supply system is investigated. The operation of this system/described by Eqs (4.1), (4.2) and (4.3) A temperature controller is also considered. The operation

Card5/6

S/141/59/002/06/015/024

Investigation of the Stability of Some Distributed Linear Systems

of the system is described by Eqs (5.1) and (5.5). There are 11 figures and 24 references, 1 of which is English and 23 are Soviet.

Nauchno-issledovatel'skiy fiziko-tekhnicheskiy ASSOCIATION:

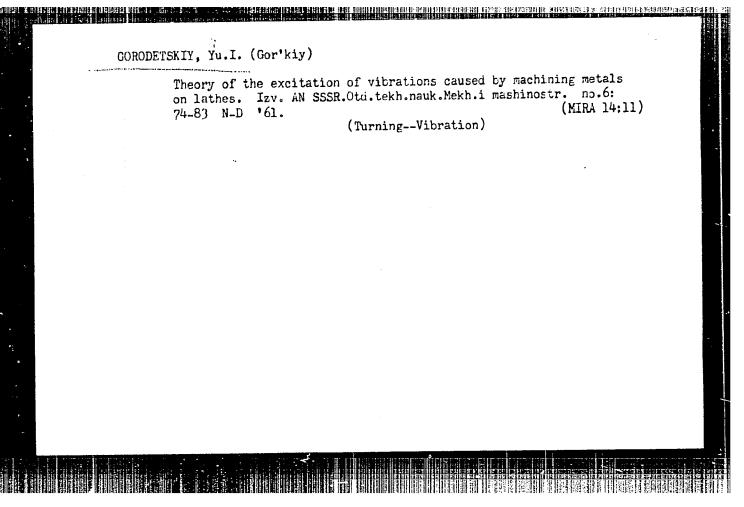
institut pri Gor'kovskom universitete (Scientific-

research Physics-engineering Institute of Gor'kiy

University)

SUBMITTED: July 2, 1959

Card 6/6



Using the method of oscillographic polarography in controlling galvanic baths. Mashinostroenie no.5274-75 S-0 44

(MIRA 18:2)

AUTHORS:

Tur'yan, Ya. I., Gorodetskiy, Yu. S.

20-4-31/52

TITLE:

The Oscillographic Investigation of Oxides Which are Formed on a Nickel Anode With the Electrochemical Separation of Oxygen (Ostsillograficheskoye issledovaniye okislov, obrazuyushikhaya na nikelevom anode pri elektrokhimicheskom vydelenii kisloroda).

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 117, Nr 4, pp. 655-657 (USSR)

ABSTRACT:

In order to discover the mechanism of an overvoltage caused by oxygen, both the nature and concentration of those oxides which are formed on a smooth nickel anode in a basic solution, must be known. First, several previous works dealing with this subject are mentioned. The authors developed methods for the oscillographic investigation of a smooth nickel anode. This made the determination of the quantity of stable oxide and also of the quantity of unstable oxide, possible. The essential feature of this methodics is explained here by means of a graph. The elaborate investigation was carried out here with an oscillograph of the type MNO-2 with 8 loops and photographic recording. A spectroscopically pure nickel anode was investigated. The approximate course of the "complete" curves of discharge (of the first one and of the one following up

Card 1/3

The Oscillographic Investigation of Oxides Which are Formed 2-4-31/52 on a Nickel Anode With the Electrochemical Separation of Oxygen.

to the complete reduction of the oxides) is shown in a diagram. The upper horizontal part section on the first curve corresponds to the polarizing current still switched on. The point of current-decrease is obtained at the moment of switching off the polarizing current, then the middle horizontal section follows and subsequently the current intensity decreases down to the lower horizontal sectional part. The lower part-section corresponds to the presence of NiO on the surface. The middle horizontal part-section part corresponds to the reduction of NiO2 and Ni2O3. The decrease of the amperage from the middle to the lower horizontal part-section part takes place comparatively slowly. The quantity of electricity corresponding to the "complete" curve of discharge depended only very little on the intensity of the polarization current, but increased with increasing duration of polarization. The "incomplete" curve of discharge reproduced in a further diagram, had no upper horizontal part-section, because the polarizing current was switched out prior to the switching on of the vibrator. The surface of the "incomplete" curve of discharge was smaller than the surface of the "complete" curve of discharge. After a very brief period of "recovery" (some

Card 2/3

 The Oscillographic Investigation of Oxides Which are Formed 20 on a Nickel Anode With the Electrochemical Separation of Oxygen. 20-4-31/52

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seconds) this reduction of the surface increased with decreasing duration of the "recovery". A quantity of ~ 3NiO2--layers resulted from this reduction of surface. This confirms the complete covering of the surface of the nickel anode by the highest oxide within the range of great current densities. After a polarization lasting 5 minutes, there exist already ~17 layers of Ni₂O₃ and after a hour polarization of one hour there are already ~30 layers. There are 3 figures and 11 references, 5 of which are Slavic.

Kishinev State University (Kishinevskiy gosudarstvennyy ASSOCIATION:

universitet).

May 21, 1957, by A. N. Frumkin, Academician. PRESENTED:

April 20, 1957 SUBMITTED:

Library of Congress AVAILABLE:

Card 3/3

S/123/61/000/013/015/025 A052/A101

1.1800 AUTHORS:

Kulikov, N. N.; Gorodetskiy, Yu. S.; Danku, Ye. P.

TITLE:

Anticorrosion coating on aluminum

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 13, 1961, 102, abstract

13B726 ("Uch.zap. Kishinevsk. un-t", 1960, no. 56, 245-248)

The results of an investigation of the oxidation of aluminum are re-TEXT: ported. The oxidation has been performed in electrolyte being a mixture of sulfuric and zirconyl sulfuric acids. As a sample AM aluminum wire of 2mm diameter has been taken. Oxidation has been performed after a careful preliminary preparation and electropolishing. The electrolyte for anodizing consists of (in g/l): zirconylic acid (240), sulfuric acid (185), water (375). The treatment is done at the anode density of 10-13 a/dm², voltage of 18-20 v, temperature of 35-38°C, duration of 30 min.

N. Savina

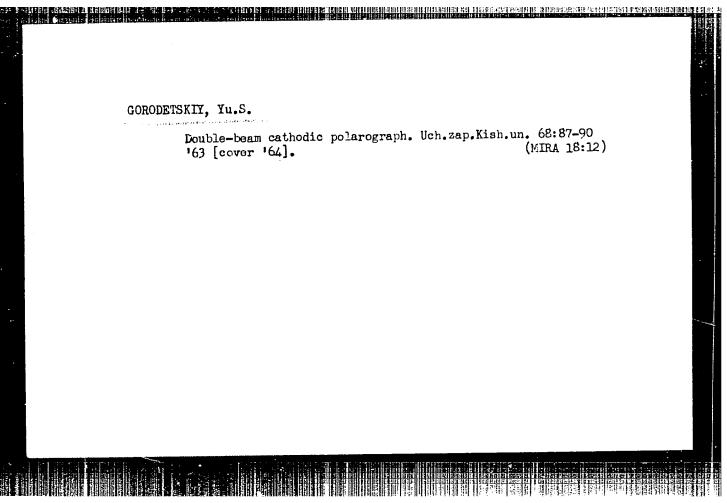
[Abstracter's note: Complete translation]

Card 1/1

GORODETSETY, Ye.C.

Oscillographic study of the surface of the platinum anode in the electrochemical evolution of exygen. Zhur.fiz.khim. 35 no.31: 2717-2719 N **Id.* (MIRA 18:2)

1. Kichinevskiy formiaratvenayy universitat.



GORODETSKIY, Yu.S.; TUPIKINA, N.A.

Control of electroplating baths by the use of oscillographic polarography. Uch.zap.Kish.un. 68:100-101 '63 {cover '64].

(MIRA 18:12)

PATON, B.Ye.; GAVRISH, V.S.; GRODETSKIY, Yu.S.

Universal programming system. Avtom.svar. 14 no.7:15-20 J1 '61.
(MIRA 14:7)

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im.
Ye.O.Patona AN USSR.
(Electric welding) (Automatic control)

PATON, B.Ye.; CAVRISH, V.S.; GORODETSXIY, Yu.S.

Programming device with dekatrons. Avtom.svar. 15 no.5:1-4 My
'62.

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki
imeni Ye.O.Patona AN USSR.

(Programming (Electronic computers))

GORODETSKIY, Yu.S.

Control of electrolytic taths with the use of cacillographic polarography methods. Zashch. met. 1 no.5:573-577 S.O 165.

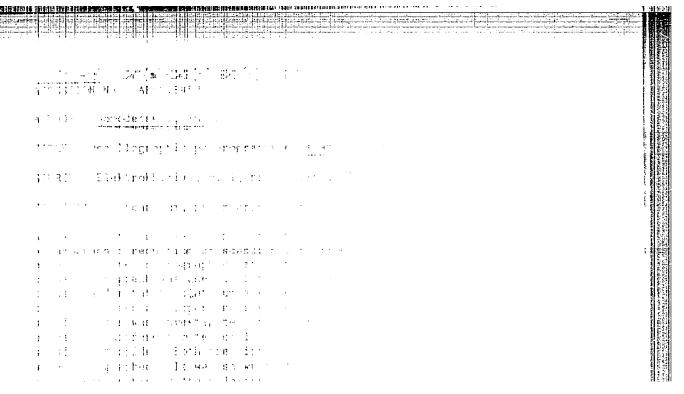
(MIRA 18:9)

1. Kishinevskiy gosudarstvennyy universitet.

ESSETTED ENG(1)/EFT(n)/EFF(c)/ACCESSION NR: APSOL6825	UR/0354/65 541.13	/001/006/0681/0685 (2)	
AUTIOR: Gorodetskiv, Yu. S.			
TITLE: Dscillegraphic investiga ation of <u>pxygen</u>	tion of a <u>silver</u> anode luri	ng electrochemical libe	r-
SCURCE: Blektrokhlmiya, v. 1, n.		vgen liberation	}
ABSTRACT: The effect which election the state of this silver graduate is silver abode with an action action of the silver above the silver action of the sil	anode was studied as a second pareth as inflation as a second as a	Mark Control of	
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stic peak occurs on the polarogram. In the	e presence of scandium ions a character-in- e case of Sc (III) depolarizer the
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1. Elehinevskily mesedar streenyy va		

GORODETSKIY, Z.

A great topic; told by a wall newspaper editor. Prom.koog. 13
no.3:34 Hr '59.

1. Redaktor stennoy gazety arteli "Tol'prom," Moskva.

(Moscow...Socialist competition)

YESHCHIM, Semen Borisovich; GORODETSKOV, Aleksandr Petrovich, nauchnyy red.; ROGACHEV, F.V., red.; SAMUYLOVA, A.G., tekhn.red.

[Work training for assistant engineers and electricians in the repair of electric locomotives and electric units; teaching aid for instructors at railroad and technical schools] Proizvodstvennoe obuchanie pomoshchnikov mashinistov i slesareielektrikov po remontu elektrovozov i elektrosektsii; v pomoshchmasteram zheleznodorozhnykh i tekhnicheskikh uchilishch. Moskva, Vses. uchebno-pedagog.izd-vo Trudrezervizdat, 1958. 125 p. (MIRA 12:9)

(Electric railroads -- Maintenance and repair)

32(3) SOV/112-59-5-9118

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Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 5, p 102 (USSR)

AUTHOR: Gorodetskoy A. P.

TITLE: Should Types and Periodicity of Electric-Locomotive Repairs be Changed?

PERIODICAL: Elektr. i teplovozn. tyaga, 1958, Nr 2, pp 19-20

ABSTRACT: A substantiation of a new repair schedule for electric locomotives set forth in the table below is presented:

		Thousands km between repairs Mountain Plain		Number of repairs between periods		
Place of Repair	Repair Type			Mountain Plair		
Mfg plant	Overhauling	1,200	1,500	0	0	
same	Medium repair	600	750	1	1	
Depot .	Lifting	200	250	2	2	
same	Large periodic	50	125	3	1	
same	Small periodic	17	21	2	5	
same	Control technical	10-12	10-12	1	1	
Card 1/1				V. A	L I.	

AVDEYEV, Mikhail Mikhaylovich; TSVETKOVICH, Sergey Aleksandrovich; GORO-DETSKOV, A.P., inzh., ratsenzent; SIDOROV, N.I., inzh., red.; MEDVEDEVA, M.A., tekhn. red.

[Practices in the operation of a.c. electric locomotives] Opyt eksluatatsii elektrovozov peremennogo toka. Moskva, Vses. izdatel'skopoligr. ob"edinenie Meva putei soobshcheniia, 1961. 37 p. (Electric locomotives) (MIRA 14:11)

GORODETSKOV, A.P., inzh.

Regrettable omissions in a certain brochure. Elek. i tepl. tiaga 5 no.6:26 Je '61. (MIRA 14:10) (Electric railroads—Wires and wiring) (Lubrication and lubricants)

· Company of the Com

MAKAREVICH, Vitaliy Sergeyevich; VEPRIK, Gennadiy Nikolayevich;

GERASIMOV, Vasiliy Petrovich; SIMONOV, Veniamin Georgiyevich;

GORODETSKOV, A.P., inzh., retsenzent; INUTTSAU, A.G., inzh.,

retsenzent; ZUBLEVSKIY, S.M., inzh., red.; USENKO, L.A., tekhn.

red.

[Detection and elimination of faults in VI22²² electric licomotives]
Obnaruzhenie i ustranenie neispravnostei na elektrovozakh VI22^N.
Moskva, Transzheldorizdat, 1962. 127 p. (MIRA 15:11)
(Electric locomotives—Maintenance and repair)

GLOTOV, V.L.; GORODETSKOV, A.P., inzh., retsenzent; KOSTYUKOVSKIY,
K.A., inzh., red.; VOROBYEVA, L.V., tekhn. red.

[Engineering inspection and equipment of a.c. locomotives]
Opyt tekhnicheskogo comotra i ekipirovki elektrovozov peremennogo toka. Moskva, Izd-vo "Transport," 1964. 37 p.
(MIRA 17:3)

YERSHOV, Ye.F.; ZAYTSEV, M.V.; GORODETSKOV, A.P., inzh., retsenzent; KALININ, V.K., kand. tekhn. nauk, red.; VASIL'YEVA, N.N., tekhn. red.

[Operation of VL60 electric locomotives; experience of the Gorkiy railroad] Ekspluatatsiia elektrovozov VL60; opyt Gor'kovskoi dorogi. Moskva, "Transport," 1964. 62 p.

(MIRA 17:2)

	L_18883-66 ENT(1)/ENT(m)/ETC(f)/ENG(m)/T/ENP(t) IJP(c) RDN/GG/JD ACC: NR: AP6007803 BOURCE CCDE: UR/0185/66/011/002/0221/0224 AUTHOR: Lashkar'ov, V. Ye.; Sheynkman, M. K.; Lyubchenko, O. V.; Gorodeta'kyy, I.
	ORG: Institute of Semiconductors AF UNISSE, Mev (Instytut naptyprovideskiv AF O
	Cas and Case single crystals (SCURCE: Unraying key fizythny zhurnal will an a secondination centers in
	tron recombination, capture cross section relation selection, single crystal, elec-
	current in CdS and CdSe single crystals (FTT v. 7, 1717, 1965 and earlier papers), ing hitherto undetermined parameters (the capture coefficient (C)) and earlier papers.
	II centers, and their chergy levels (E_{vr}) reckoned from the top of holes by type band), as well as new methods of determining the cross section for the capture of a quenching infrared photon. The new methods are based on the use of stationary
1 1	Cond 1/2

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e: Ti o: ti	xciting illumination in conjunction with pulses of exciting or quenching ir light he theory underlying the methods is briefly described. The methods were tested he theory underlying the methods is briefly described. The methods were tested he elected high-resistance undoped CdS and CdSe single crystals. The tests shows the presence in CdS of two types of recombination centers, with $C_r \approx (35) \times 10^{-12}$ he presence in CdS of two types of recombination centers, with $C_r \approx (35) \times 10^{-12}$ m³/sec and E_{vr} m³/sec and E_{vr} = 1.0 ev for the first, and $C_r \approx (23) \times 10^{-12}$ cm³/sec and E_{vr} 1.18 ev for the second. Tests made by three different methods gave nearly identical results. Orig. art. has: 2 figures, 5 formulas, and 1 table.	d B
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- 1. GORODEYEV, V. A.
- 2. USSR (600)
- 3. Looms
- 4. Effect of setting size on the productivity of silver warping frames. Tekst. prom. No. 11 1952

9. Monthly List of Bussian Acessions, Library of Congress, February, 1953. Unclassified.

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AUTHORS:

Afrosimov, V. V., Gladkovskiy, I. P., Gordeyev, Yu. S.

Kalinkevich, I. F., and Fedorenko, N. V.

TITLE: Investigation of Atomic Flux Emitted by Plasma

PERIODICAL: Zhurnal tekhnicheskoy fiziki, 1960, Vol. 30, No. 12,

pp. 1456 - 1468

TEXT: The authors developed a method of measuring the flux of uncharged atoms having an energy of 300 ev to some thousand kev. The method is based upon the recording of individual atoms after their ionization and acceleration to 10-20 kev. Fig.1 shows a scheme of this instrument, in which the ionized particles are directed onto an Al-Mg target, where they produced secondary ions which were measured by a scintillation counter. For the calibration of the installation, a special device for monochromatic ions and atoms was used. The calibration curves are shown and discussed in detail. Further, installations are described in detail, which permit the time dependence of the atom flux, the energy distribution, and the mass analysis of the atoms to be determined by an

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Envestigation of Atomic Flux Emitted by S/057/60/030/012/009/01!
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oscilloscope. The energy distribution of the atoms was stadied with the relation dJ/dE = $J_+(E)/\bar{\alpha}_o(E)\mu E$, where $J_+(E)$ is the current of secondary ions, and $\bar{\alpha}_o(E)$ the mean recording efficiency. The density of the atomic flux was determined from the relation

 $dJ/d\Omega = (1/\overline{\Sigma}S_{eff}) \int_{E_1}^{E_2} J_{+}(E)dE/\overline{\alpha}_{o}(E)\mu E, \text{ where } \Omega \text{ is the mean solid angle},$

and $S_{\mbox{eff}}$ the effective plasma surface. For calculating the concentration of atoms per unit volume the formula

 $n_0 = 2\sqrt{2M}$ (dJ/dE)dE//E was used. By changing Ω , the light intensity μ .

and the thickness of the gas target, it is possible to improve the sensitivity considerably. The least measured density of the flux of hydrogen atoms having an energy of 300 ev in the case of an isotropic

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Investigation of Atomic Flux Emitted by

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 $\times 5$

Plasma -

velocity distribution was 1.10¹⁰ at/cm².sec. There are 10 figures and 5 references: 4 Soviet and 1 US.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN SSSR Leningrad

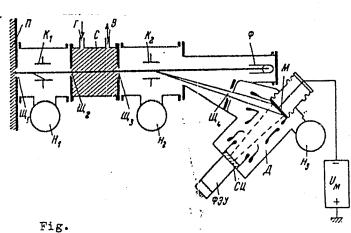
(Institute of Physics and Technology AS USSR, Leningrad)

SUBMITTED:

July 15, 1960

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РИК 1. Схена прибора для исследования потска атомов.

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Legend to Fig.1:

| plasma space. W₁ entrance slinof the instrument. -1 capacitor

for the deflection of charged particles. C ionization chamber. W₂ and W₃
entrance and exit slits of the ionization chamber.

| and B tubes for the lead-in of a gas and pressure measurement. K₂ analyzer. W₄ detector-entrance slit. A detector.

M target. U_M source of acceleration voltage. CV, ascintillator.

photomultiplier. H₁, H₂, and H₃ diffusion pumps. 5 Faraday auxiliary receiver.

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AUTHORS:

Afrosimov, V. V., Gladkovskiy, I. P., Gordeyev, Yu. S., Kalinkevich, I. F., Petrov, M. P., and Fedorenko, N. V.

TITLE:

Investigation of a Flux of Neutral Atomic Particles Emitted by the Plasma of "Al'fa" Research Installation

PERIODICAL:

Zhurnal tekhnicheskoy fiziki, 1960, Vol. 30, No. 12,

pp. 1469 - 1484

TEXT: The authors used the device described in the present issue on p. 1456 ff to investigate the atomic flux with energies of 300 ev to 10 kev, emitted by the plasma of "Al'fa". The measurements showed that practically all atoms recorded are hydrogen atoms. The quantity of the fast atoms grows with an increase of the capacitor voltage, with a decrease of the external magnetic field H_z, or with a decrease of the

hydrogen pressure in the chamber. In the course of discharge, the quantity of fast atoms reaches a maximum, while the discharge current increases to its first maximum. However, there is no considerable

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Investigation of a Flux of Neutral Atomic Particles S/057/60/030/012/010/011 Emitted by the Plasma of "Al'fa" Research H019/B056 Installation

difference in the energy distribution of atoms during discharge. A table gives data on the atomic flux. Analysis of the data showed that the fraction of atoms in the atomic flux generated by reflection of ions from the wall, is small compared to the fraction coming direct from the plasma. It was further shown that the energy distribution of atoms and ions in the plasma space are very similar, and that the energy distribution cannot be approximated by Maxwell distribution. The mean energy of hydrogen atoms reflected from a metal surface is estimated in an appendix. The authors thank B. P. Konstantinov for his valuable advice and discussion, D. M. Kaminker for his interest, C. V. Konstantinov and V. I. Perel! for taking part in discussions, as well as Ye. G. Komar, A. M. Stolov, and V. A. Glukhikh for their assistance in measurements. There are 11 figures, 1 table, and 8 references: 6 Soviet and 2 US.

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Investigation of a Flux of Neutral Atomic S/057/60/030/C12/010/011 Particles Emitted by the Plasma of "Al'fa" B019/B056 Research Installation

ASSOCIATION: Fiziko-tekhnicheskiy institut AN SSSR (Institute of

Physics and Technology of the AS USSR). Nauchno-

issledovatel'skiy institut elektrofizicheskoy apparatury

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(Scientific Research Institute of Electrophysical

Apparatus)

SUBMITTED:

July 15, 1960

Card 3/4

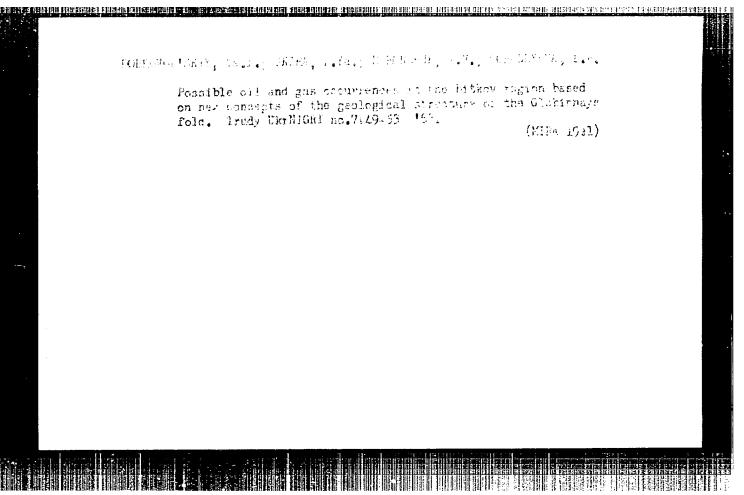
37/163

S/057/60/030/012/010/011 B019/B056

Λ		Паотность потока	2	3	11
Рожин	ATAR CAH- BRUY TEACCHOFO FARA AB 1 Cut CtpA. Parap.	при маогропком распределения скоростей втомом f, 1	BEEFFER, JROCK- NOB STOMBAN, S S AR/CH ² - PRSP.	E _{cp.} ,	е, кдж/разр.
5' kB, 360 Bpcr. 10 kB, 360 Bpcr. 10 kB, 720 Bpcr. 15 kB, 180 Bpcr. 15 kB, 360 Bpcr. 15 kB, 720 Bpcr.	1.9 · 10 ⁻¹³ 8.6 · 10 ⁻¹³ 5.3 · 10 ⁻¹³ 5.0 · 10 ⁻¹³ 3.5 · 10 ⁻¹³ 4.4 · 10 ⁻¹³	1.2 - 1014 5.4 - 1014 3.3 - 1014 3.1 - 1014 2.2 - 1014 2.8 - 1014	1.0 · 10 ⁻² 4.5 · 10 ⁻² 2.5 · 10 ⁻² 3.1 · 10 ⁻² 2.3 · 10 ⁻² 2.4 · 10 ⁻²	480 530 480 670 630 530	3.0 13.5 7.5 9.4 7.0 7.2

Legend to Table 1: 1) Experimental conditions, voltage at the discharge capacitors in kv, magnetic field in oe. 2a) Atoms per unit of solid angle. 2b) Density of atomic flux in isotropic velocity distribution. 2c) Energy of atoms in joules/cm².

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AUTHOR: Gorodilov, A.N.

SOV/68-58-10-24/25

TITIE:

The Colling Industry of the Chinese People's Republic (Koksokhimicheskaya promyshlennost: Kitayskoy narodnoy

respubliki)

PERIODICAL: Koks i Khimiya, 1958, Nr 10, pp 60 - 63 (USSR)

ABSTRACT: The development of the Chinese coking industry from 1943

is cutlined. The output of coke from 1950 to 1957 increased from 1,200 to 5,040 thousand tons. The number (31 batteries) and types of coke-oven batteries is given in the table. It is expected that the output for 1962 will increase three times in comparison with that of 1957. Coal output in 1957 - 130 million tons.. It is expected that 8 new batteries per year and a number of small works will be built.

per year and a number of small works will be built. Design and research institutes are well staffed with

qualified personnel. There is I table.

Card 1/1

L 44679-66 EWT(m)

ACC: NR: AP6005361

SOURCE CODE: UR/0413/66/000/001/0106/0106

AUTHORS: Belov, Ye. M.; Gorodilov, V. M.; Minayev, I. G.; Titov, V. N.

ORG: none

46B

TITLE: Ionization pulse gas analyzer detector. Class 42, No. 177681 Zannounced by Tomsk Polytechnic Institute of the Order of the Workers' Red Banner (Tomskiy ordena trudovogo krasnogo znameni politekhnicheskiy Institut)

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 106

TOPIC TAGS: gas analyzer, gas composition analyzer, gas ionization

ABSTRACT: This Author Certificate presents an ionization pulse gas analyzer detector containing a chamber with two coaxial electrodes. An ionization source, e.g., an emitter, is located inside the chamber. To increase the sensitivity of the detector to electronegative gases (e.g., oxygen in argon), the ionization source is located at the bottom of an annular slot in the insulating end cover of the chamber (see Fig. 1).

Card 1/2

VDC: 543.51.08

